Longshine Technologie Europe GmbH

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This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to subpart J of Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which the user will be required to correct the interference at their own expense.

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CE FC

Part No.8535UCD-V1.1

1. Introduction

Product Overview

The external MFP servers enhance capability by letting you place your MFP printers at convenient locations directly on the Ethernet network, and by increasing network MFP printer performance and management.

Network Management

The MFP servers support the Simple Network Management Protocol (SNMP), which remote printer management and a warning. A standard SNMP agent is permanent on these MFP servers. Any standard SNMP-based application can be used to access and manage these MFP servers.

Components and Features

1-USB Port MFP Server

- 1 USB1.1 port
- Fast Ethernet network port: RJ-45 for 10Base-T or 100Base-TX
- 1 LED to indicate Status, 2 LED's to indicate 10/100M link lights
- One Setup CD for Windows 2000/XP, User's Guide
- One external AC power adapter
- One Quick Installation Guide
- Built-in Reset Button

Before you start, you should prepare:

- One Windows 2000/XP computer with CD-ROM drive
- One MFP Printer with USB port

Hardware Installation

To install the MFP server(s), you need to complete these steps:

- Confirm that your MFP printer works well.
- Connect the MFP server to the network and MFP printer(s) and plug in the MFP server.

Follow these instructions to install the MFP server(s), please refer to any peripheral you are connecting to the MFP server:

1. Connect one end of the UTP cable to the Ethernet port on MFP Server and the other end to a wall jack or HUB.
2. Connect the power adapter.
3. Connect the USB cable to the USB port on the side of MFP Server and the other end to your MFP printer.

2. MFP Server Installation

Preparation

To meet users' network printing/scan needs in today's heterogeneous and multiple protocol networking environments, the MFP server supports industrial standard protocols: TCP/IP.

Supported Networks

MFP server supports the TCP/IP network protocol. In addition, we provide a setup utility for network configuration on the following networks:

- Microsoft Windows 2000/XP

Configuration Solution Table

Setup Operating System	Function	Remarks
Setup utility		
Windows 2000/XP	Install a single network on a peer-to-peer network	Easy MFP server installation runs from setup CD

3. The Setup Utility for Windows 2000/XP

The setup utility is a proprietary Windows-based management program that can assist you in configuring and managing your MFP server in Windows 2000/XP environments. The program can be installed from the setup CD of MFP server.

Installing the setup utility and driver:

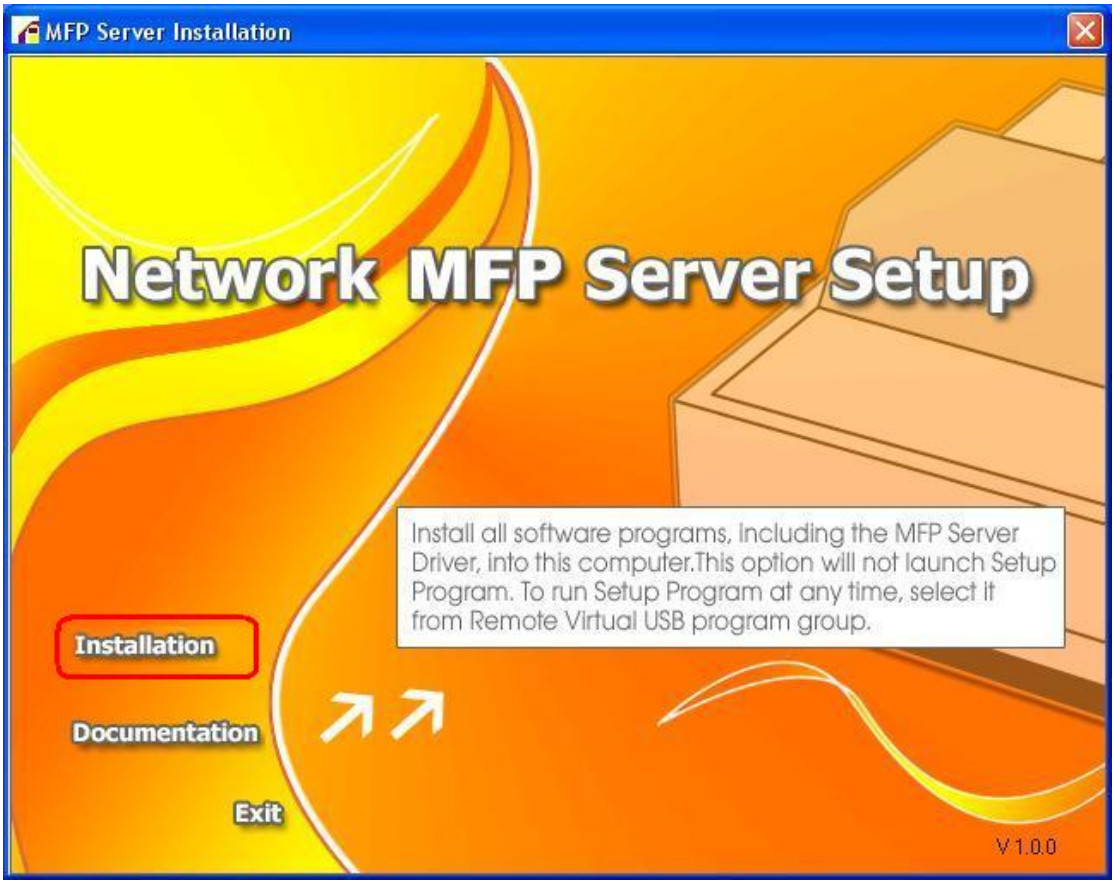
Hardware Installation:

1. Connect one end of the UTP cable to the Ethernet port on MFP Server and the other end to a wall jack or HUB.
2. Connect the power adapter.
3. Connect the USB cable to the USB port on the side of MFP Server and the other end to your MFP device.

Note:
You can install the MFP printer's driver and utility into your computer in advance.
Or, you can install the MFP server's driver and utility first, and then install the MFP printer's driver and utility by the notice of Windows pop-up message (recommended).

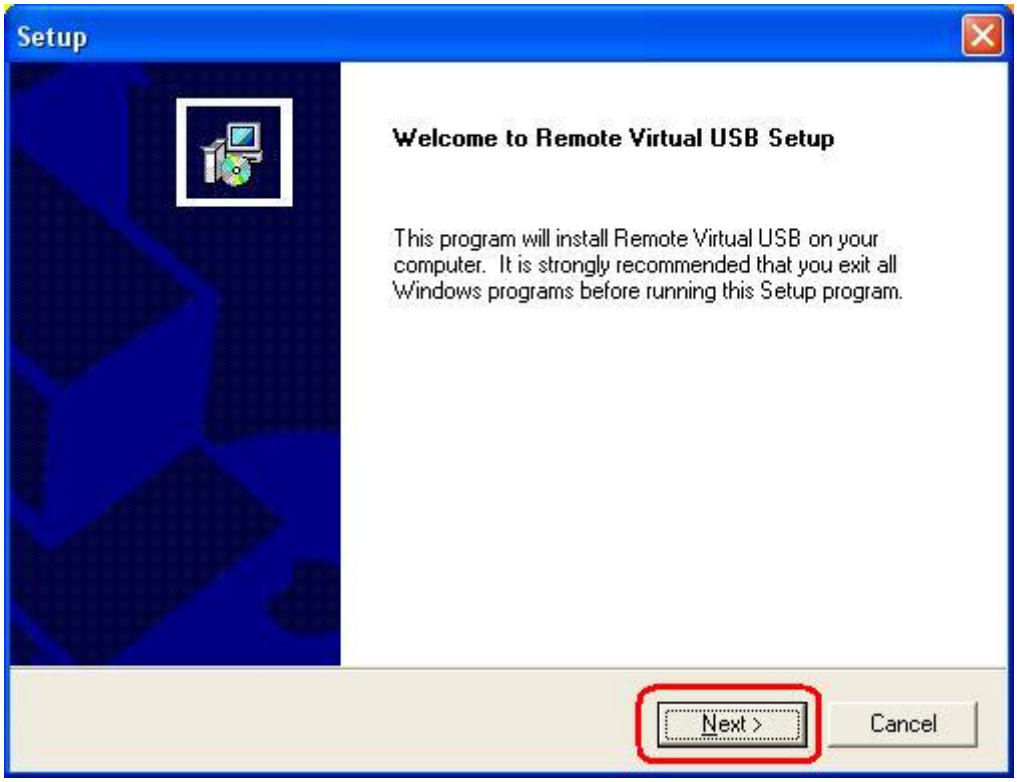
Software Installation:

1. Insert the MFP server setup CD. If the start-up screen does not appear, double-click **My Computer**, double-click the **CD-ROM** icon, and then double-click **autorun.exe**.
2. Choose **Installation** to install all software programs.

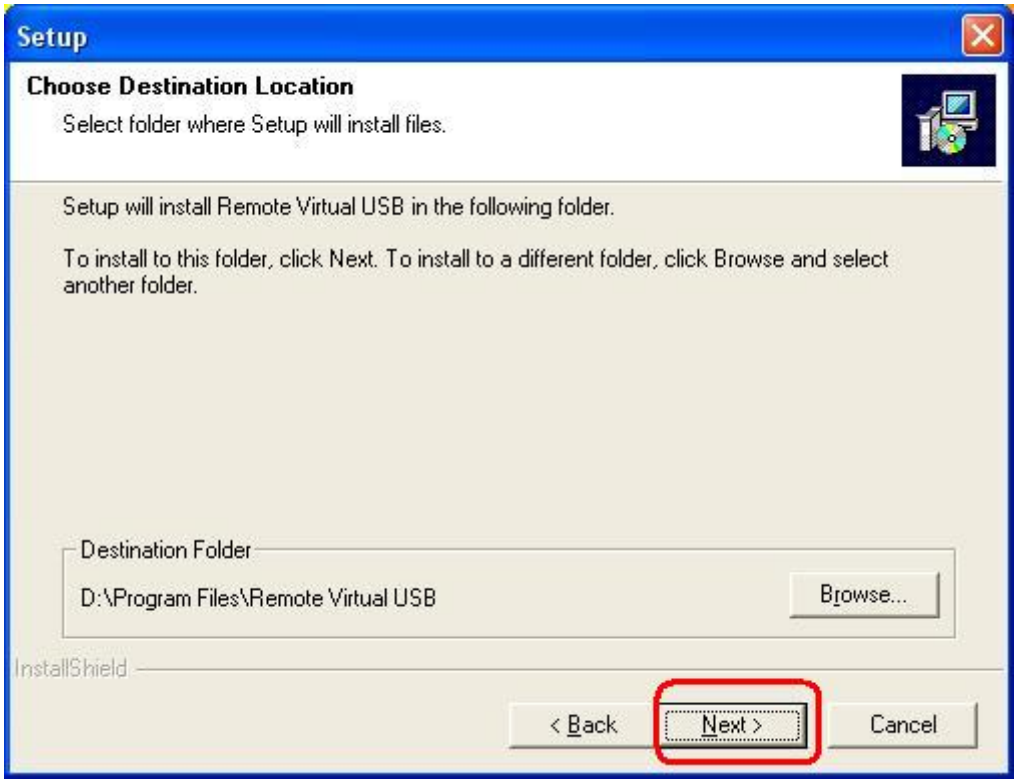

MFP Server Installation
Network MFP Server Setup
Install all software programs, including the MFP Server Driver, into this computer.This option will not launch Setup Program. To run Setup Program at any time, select it from Remote Virtual USB program group.
Installation
Documentation
Exit
V 1.0.0

3. Click **OK**.

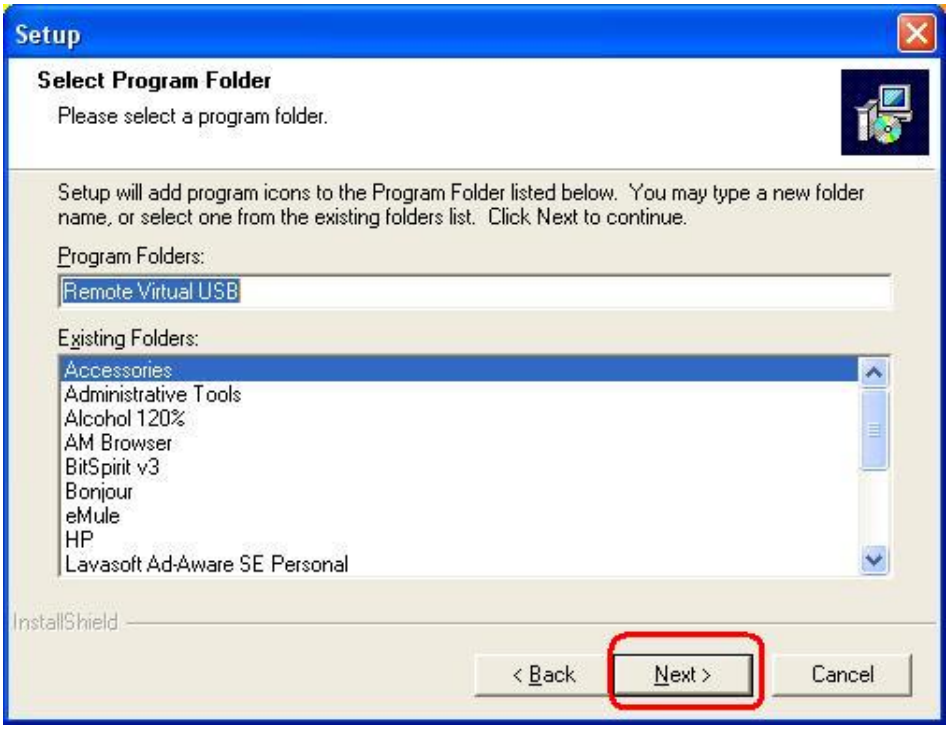
4. Click **Next**.


Setup
Welcome to Remote Virtual USB Setup
This program will install Remote Virtual USB on your computer. It is strongly recommended that you exit all Windows programs before running this Setup program.
Next >
Cancel

5. Click **Next**.

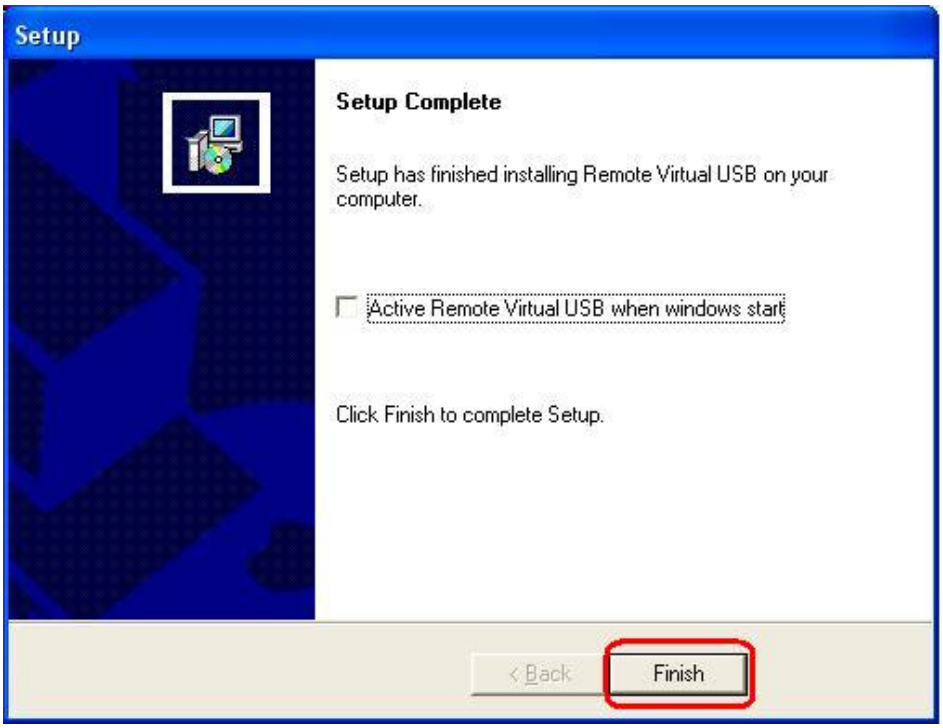

Setup
Choose Destination Location
Select folder where Setup will install files.
Setup will install Remote Virtual USB in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
D:\Program Files\Remote Virtual USB
Browse...
InstallShield
< Back
Next >
Cancel

6. Click **Next**.



7. Click **OK**.

8. Click **Finish**.

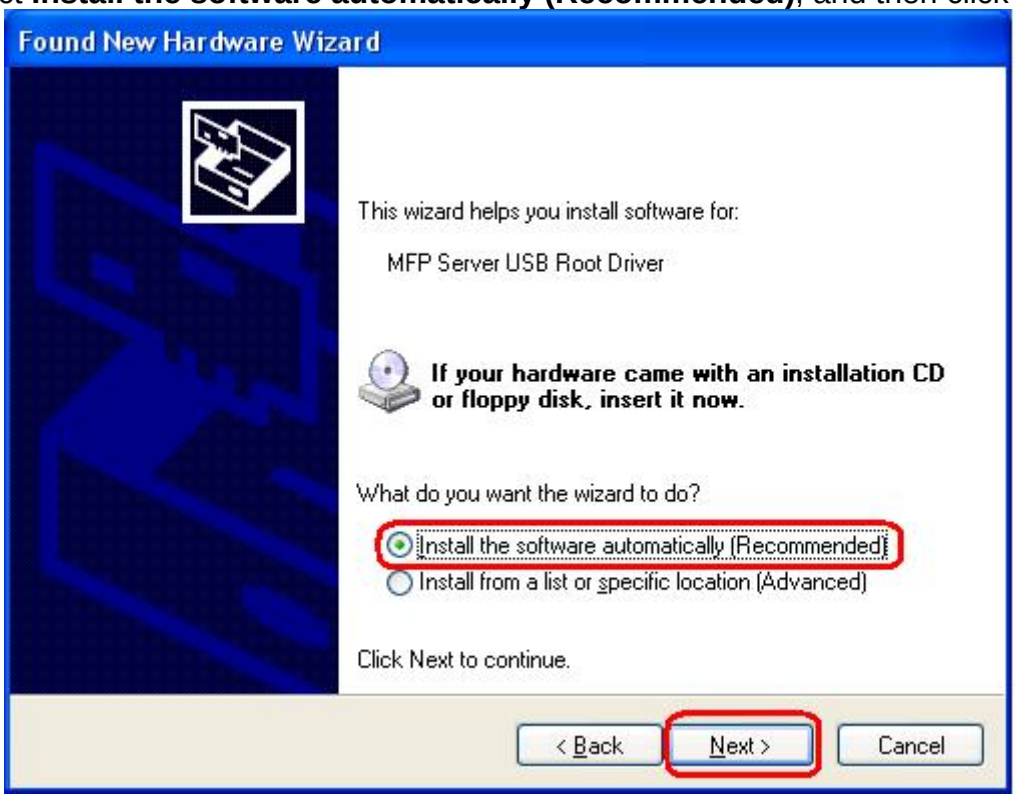

Setup
Setup Complete
Setup has finished installing Remote Virtual USB on your computer.
Active Remote Virtual USB when windows start
Click Finish to complete Setup.
< Back
Finish

Note:
If you wish to active the Auto-connection feature of MFP server after the Windows Restart, please check the **Active Remote Virtual USB when windows start**.

9. Select **No, not this time**, and then click **Next**.

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

10. Select **Install the software automatically (Recommended)**, and then click **Next**.


Found New Hardware Wizard
This wizard helps you install software for:
MFP Server USB Root Driver
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

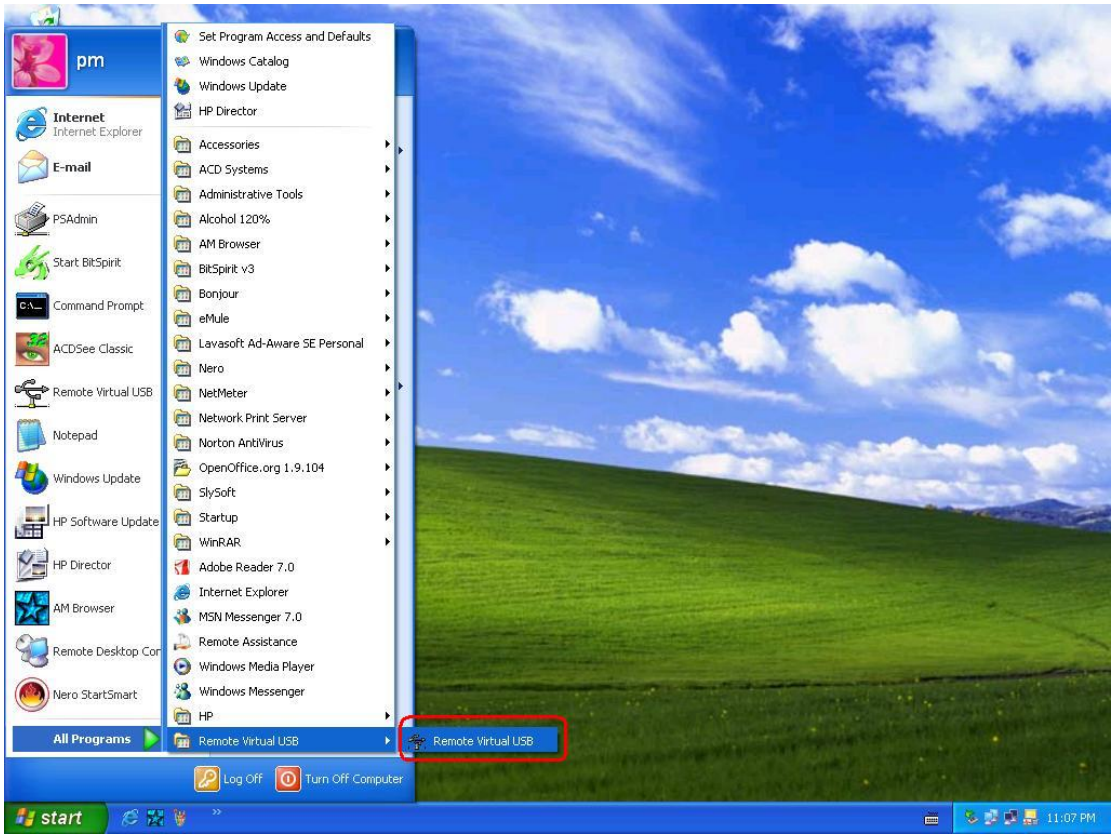
11. Click **Continue Anyway**.

Hardware Installation
The software you are installing for this hardware:
MFP Server USB Root Driver
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

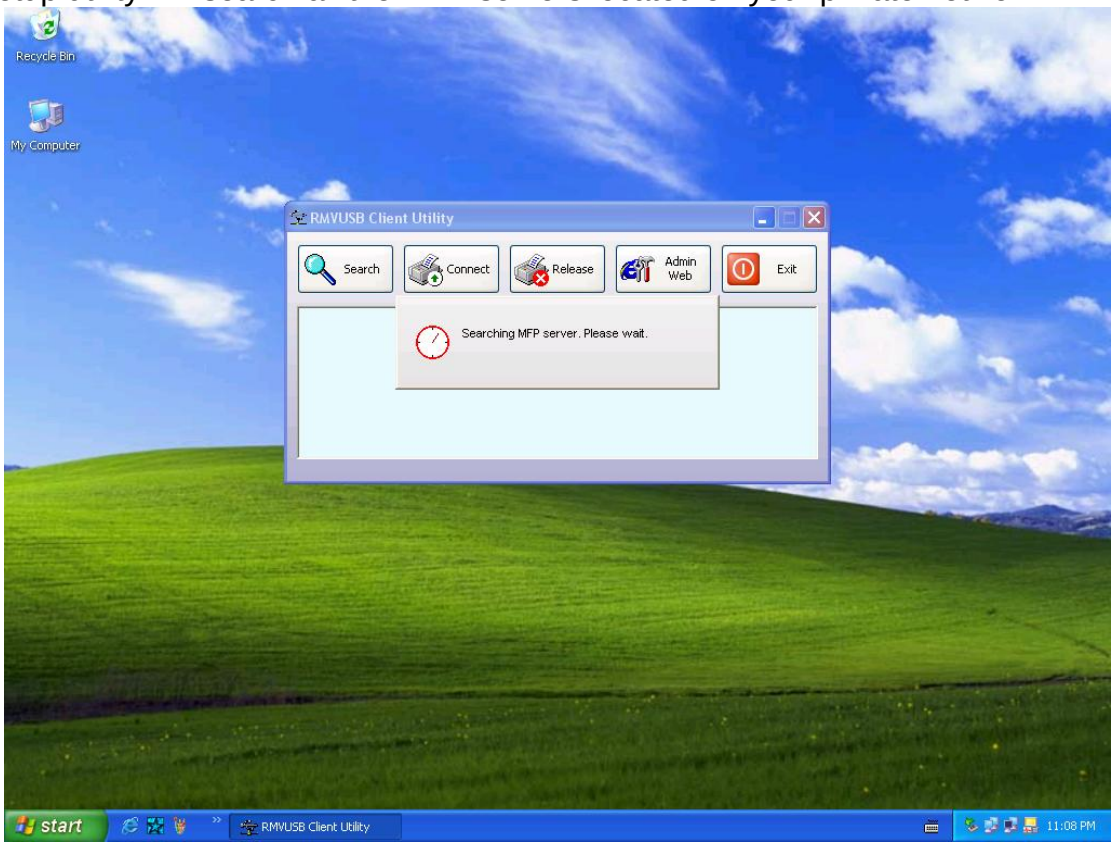
12. Click **Finish** to complete the software installation.

Found New Hardware Wizard
Completing the Found New Hardware Wizard
The wizard has finished installing the software for:
MFP Server USB Root Driver
Click Finish to close the wizard.
< Back
Finish
Cancel

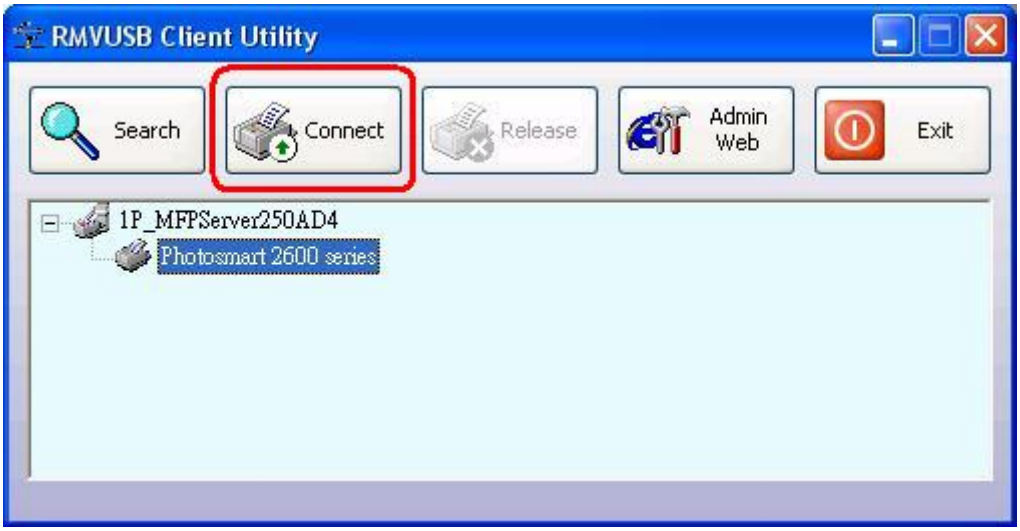
13. Then, start to setup MFP server. Click **start** -> **All Programs** -> **Remote Virtual USB** folder; click **Remote Virtual USB** to launch setup utility.



14. Setup utility will search all the MFP servers located on your private network.

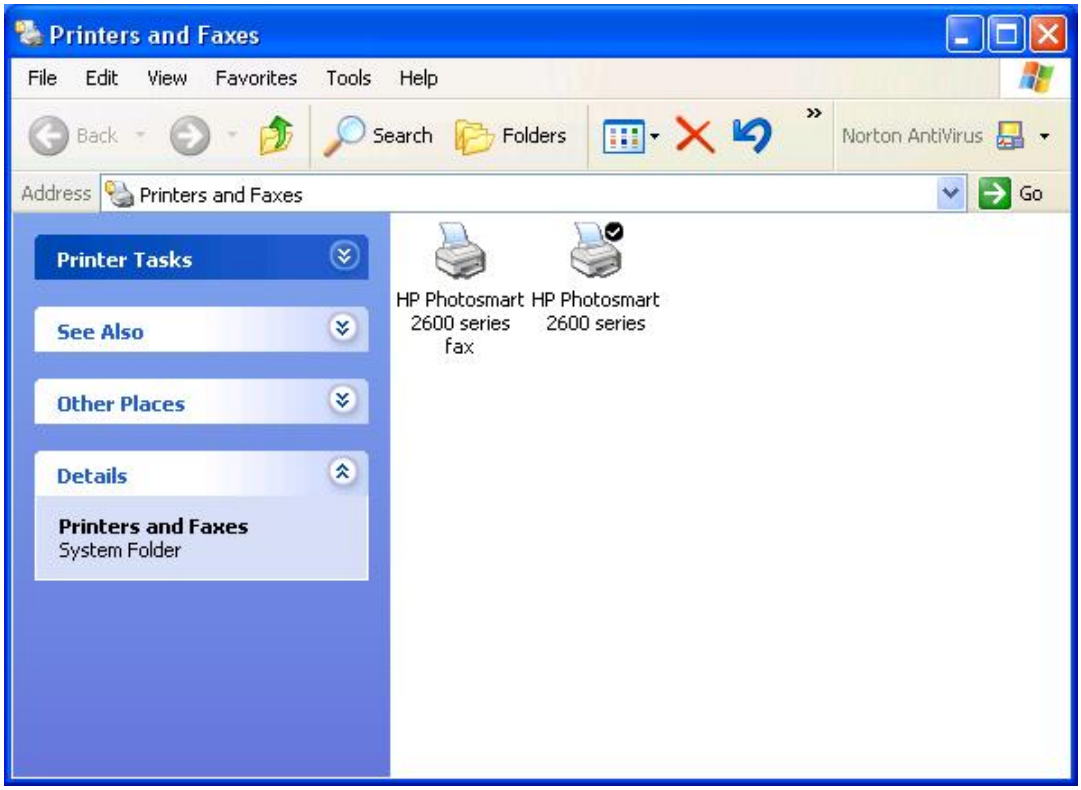


15. Select one of the MFP printers, and then click **Connect** button.



16. Wait while the MFP printer's driver installation complete.

17. From Windows 2000/XP system, go to **start** -> **Printers and Faxes** and make sure of the icon of MFP printer appeared.



18. Congratulation! Your MFP printer is now ready to share the print, scan and fax features.

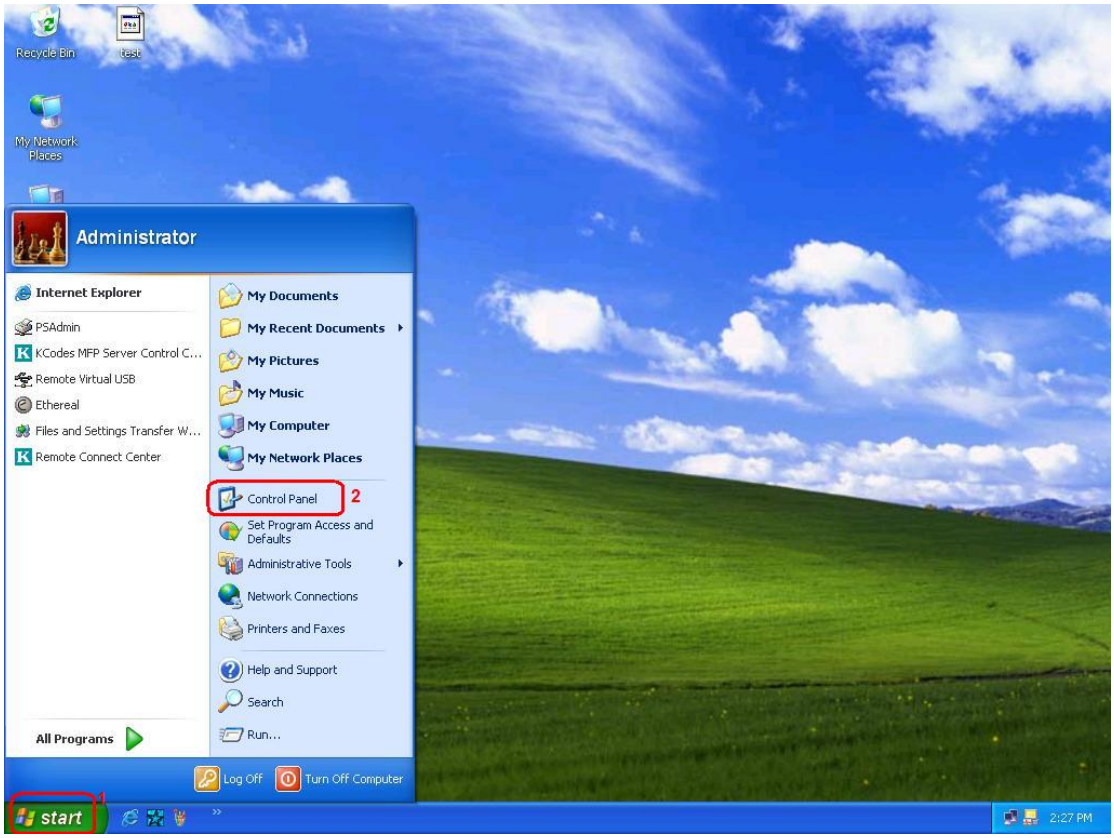
Note:
If you wish to setup more MFP servers, start setup utility from your Windows Start menu: **start** -> **All Programs** -> **Remote Virtual USB** -> **Remote Virtual USB** and repeat the setup procedure.

Uninstalling the setup utility on Windows 2000/XP Computer

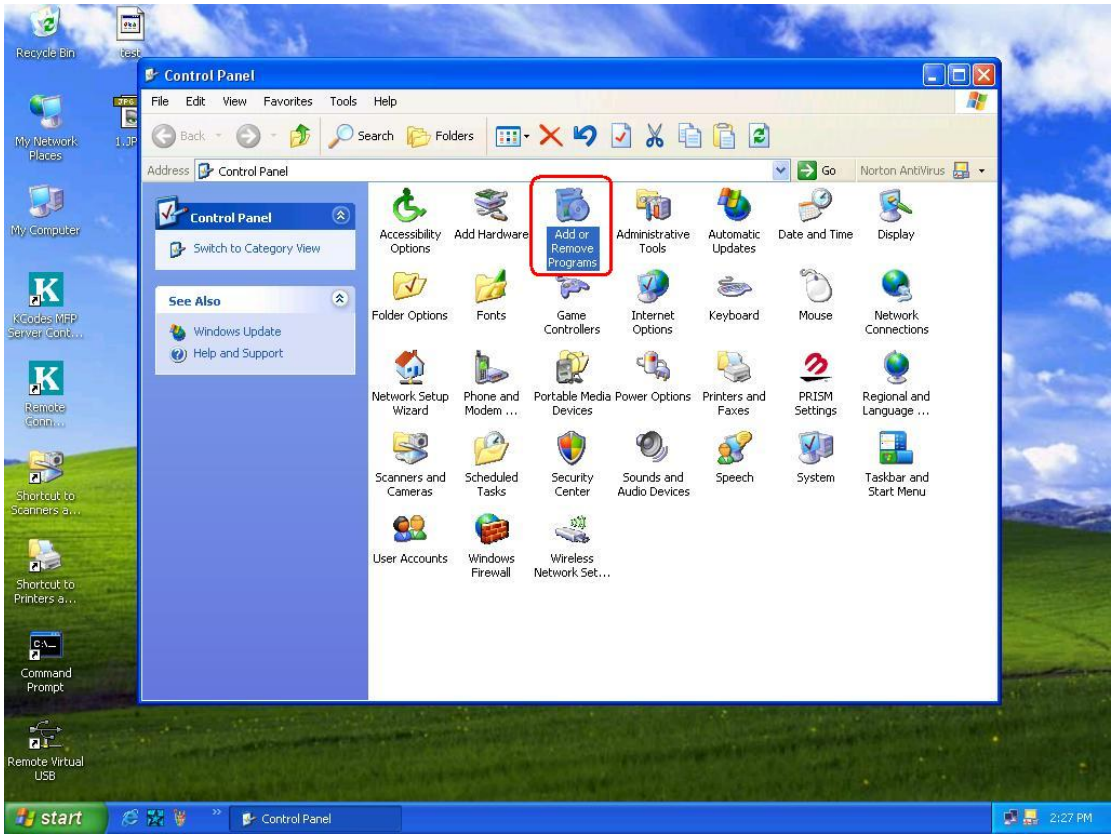
Please follow the directions listed below to proceed with the un-installation procedure.
After the MFP server setup utility is removed, the MFP server is no longer accessible. You have to re-install it on your system in order to access the MFP server again.

Procedure:

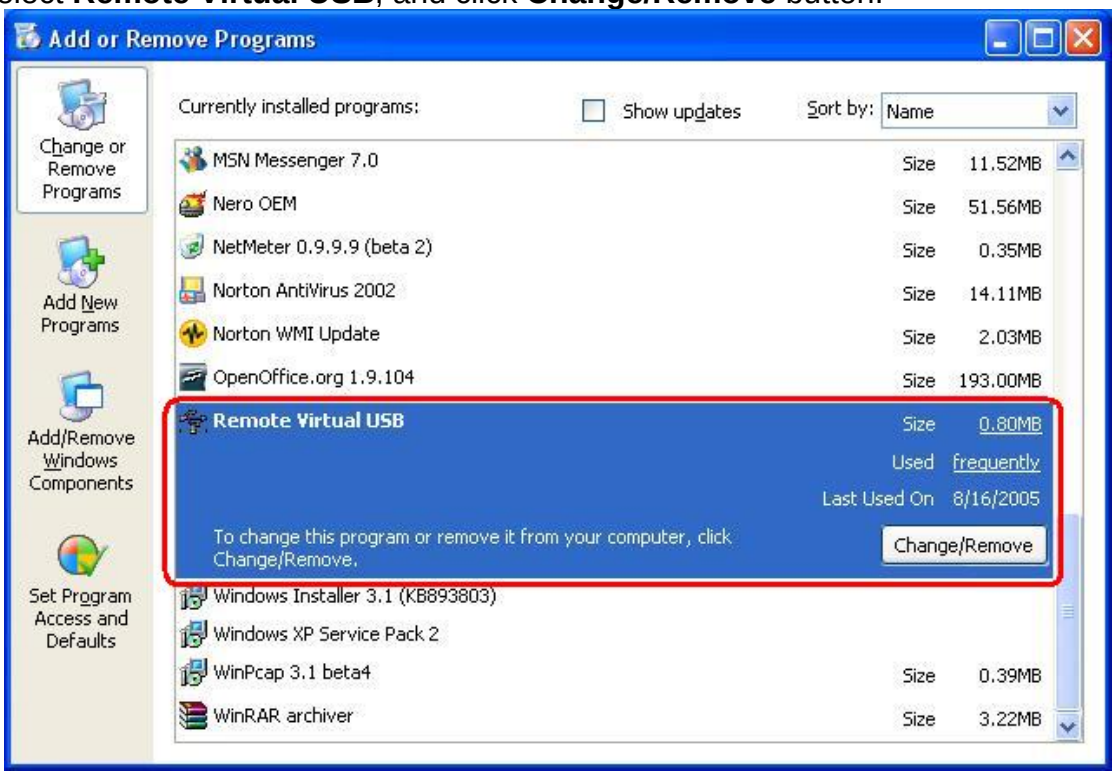
1. Click **start**, and select **Control Panel**.



2. Double click the **Add or Remove Programs** icon.



3. Select **Remote Virtual USB**, and click **Change/Remove** button.


Add or Remove Programs
Change or Remove Programs
Add New Programs
Add/Remove Windows Components
Set Program Access and Defaults
Currently installed programs:
Show updates
Sort by: Name
MSN Messenger 7.0 Size 11.52MB
Nero OEM Size 51.56MB
NetMeter 0.9.9.9 (beta 2) Size 0.35MB
Norton AntiVirus 2002 Size 14.11MB
Norton WMI Update Size 2.03MB
OpenOffice.org 1.9.104 Size 193.00MB
Remote Virtual USB Size 0.80MB
Used frequently
Last Used On 8/16/2005
To change this program or remove it from your computer, click Change/Remove.
Change/Remove
Windows Installer 3.1 (KB893803)
Windows XP Service Pack 2
WinPcap 3.1 beta4 Size 0.39MB
WinRAR archiver Size 3.22MB

4. The un-installation wizard program will be launched.
5. Follow the directions on the screen to complete the un-installation procedure.

4. **C**onfiguration from **E**mbedded **W**eb **S**erver

Overview

The MFP server contains an embedded web server that can be accessed through a supported web browser on a LAN, for example, IE 5.01, Netscape 6.2 or above is recommended.

The embedded web server provides access to configuration and management pages for the MFP server and the connected peripheral device.

Using Embedded Web Server

Before you can use the embedded web server, the MFP server must be configured with an IP address. The default IP address of MFP server is 192.168.0.10 and the subnet mask is 255.255.255.0.

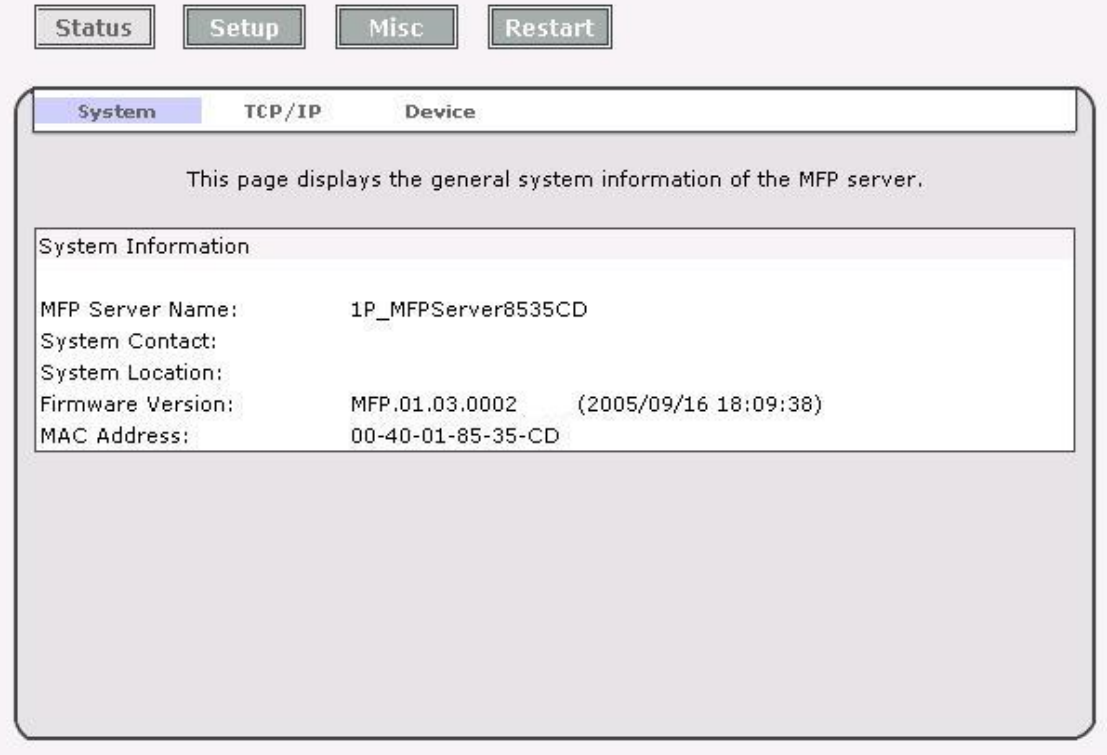
Status Menu

Enter the IP address of the MFP server as the URL, for example, 192.168.0.10. Then the MFP server's home page will appear in content of the web browser.

System Status

1.Click **Status**, it then appears the sub-menu.

2.Click **System**, it then as shown in the following picture.



MFP Server Name: This option allows you to view device name of the MFP server.

System Contact: This option allows you to view contact name of the MFP server. To check the MFP server's contact name whom in charge of this device.

System Location: This option allows you to view location name of the MFP server. To confirm the MFP server's location name where the MFP server is located in the office's LAN.

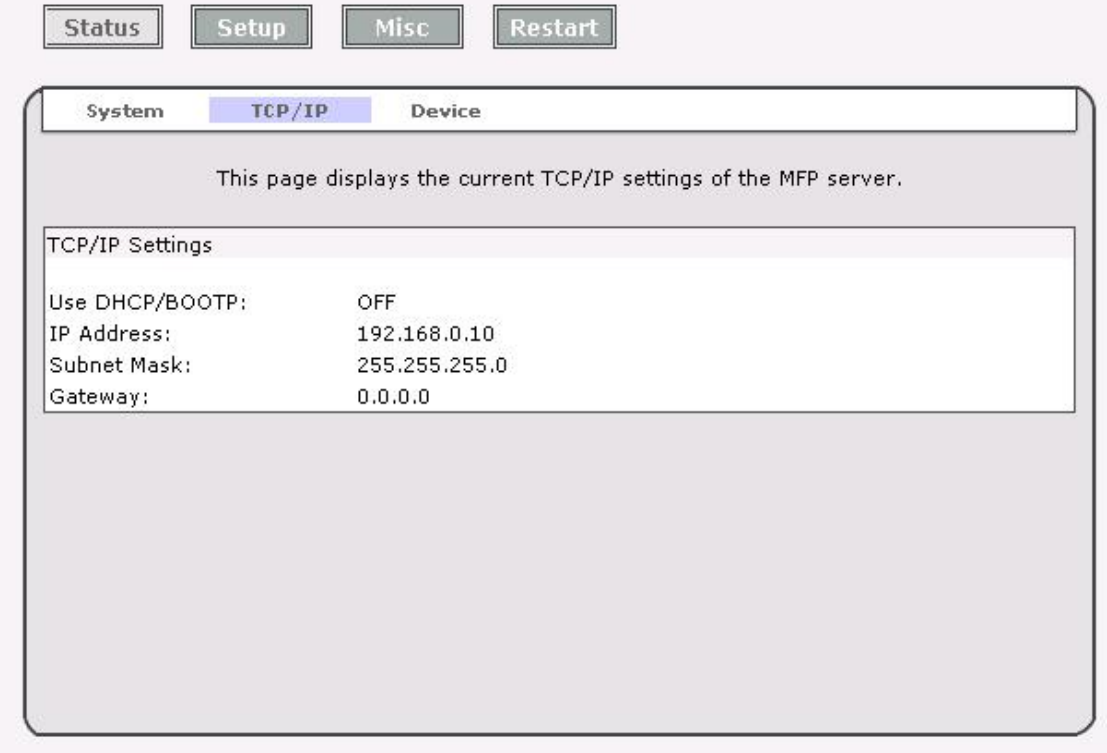
Firmware Version: This option allows you to check the firmware version of the MFP server.

MAC Address: This option allows you to view Node ID of the MFP server. The Node ID is unique from any MFP server.

TCP/IP Status

1.Click **Status**, it then appears the sub-menu.

2.Click **TCP/IP**, it then as shown in the following picture.



Use DHCP/BOOTP: This option allows you to view DHCP/ BOOTP status. If there is a DHCP/BOOTP server on your network, this option allows the MFP server to obtain IP-related settings automatically from your DHCP server.

IP Address: This option allows you to view IP address from the MFP server. The IP address must meet the IP addressing requirements of the network segment.

Subnet Mask: This option allows you to view subnet mask from the MFP server. The IP address must meet the IP addressing requirements of the network segment.

Gateway: This option allows you to view gateway from the MFP server. This IP address of gateway must meet the router or gateway to go across of the network segment.

Device Status

1. Click **Status**, it then appears the sub-menu.
2. Click **Device** it then as shown in the following picture about the status of connected MFP.

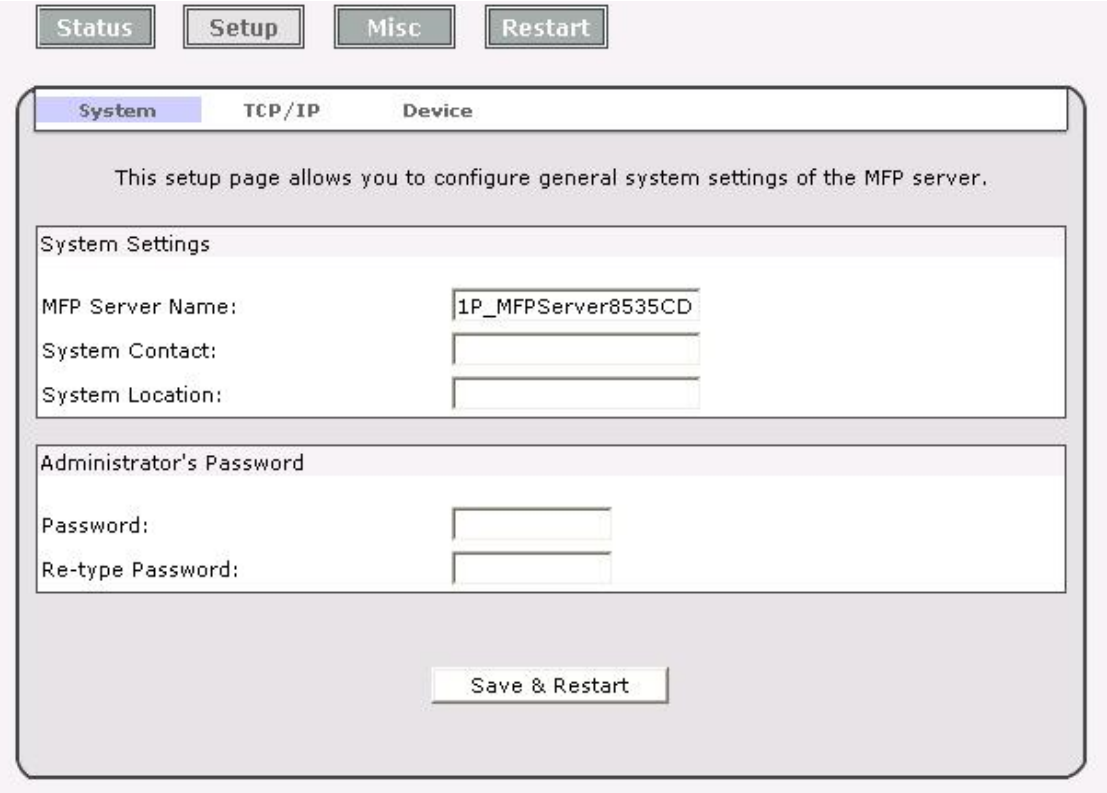
Setup Menu

Enter the IP address of the MFP server as the URL, for example, 192.168.0.10. Then the MFP server's home page will appear in content of the web browser.
Please follow this information in the setup menu of the MFP server:

System Setup

1.Click **Setup**, it then appears the sub-menu.

2.Click **System**, it then as shown in the following picture.



MFP Server Name: This option allows you to change device name of the MFP server.

System Contact: This option allows you to input contact name of the MFP server. To check the MFP server's contact name who in charge of this device.

System Location: This option allows you to input Location name of the MFP server. To confirm the MFP server's location name where the MFP server is located in the office's LAN.

Password: This option allows you to input setup password of the MFP server. When you select setup menu of web configuration from the MFP server, it then as shown in the following picture.

- **User Name:** You must input the default administration user name: **admin** as login user name.
- **Password**: The default password is empty. After setup password is completed from the MFP server, you should to remember this password to input password box.

TCP/IP Setup

1. Click **Setup**, it then appears the sub-menu.
2. Click **TCP/IP**, it then as shown in the following picture.

DHCP/BOOTP: This option allows you to select DHCP/ BOOTP option. If there is a DHCP/BOOTP server on your network. This option allows the MFP server to obtain IP-related settings automatically from your DHCP server.

IP Address: This option allows you to input IP address from the MFP server. The IP address must meet the IP addressing requirements of the network segment.

Subnet Mask: This option allows you to input subnet mask from the MFP server. The IP address must meet the IP addressing requirements of the network segment.

Default Router: This option allows you to input gateway from the MFP server. This IP address of gateway must meet the router or gateway to go across of the network segment.

Device Setup

1. Click **Setup**, it then appears the sub-menu.
2. Click **Device**, it then as shown in the following picture.

Note:

This option is reserved.

5. **U**pgrading **M**FP **S**erver

Overview

Upgrading MFP server will allow you to replace its firmware inside the MFP server while the newer software version is available from your local dealer. Please refer to the following list for your systems.

Note: 1. Before you proceed to upgrade the MFP server, please ensure that the necessary binary file is correct.

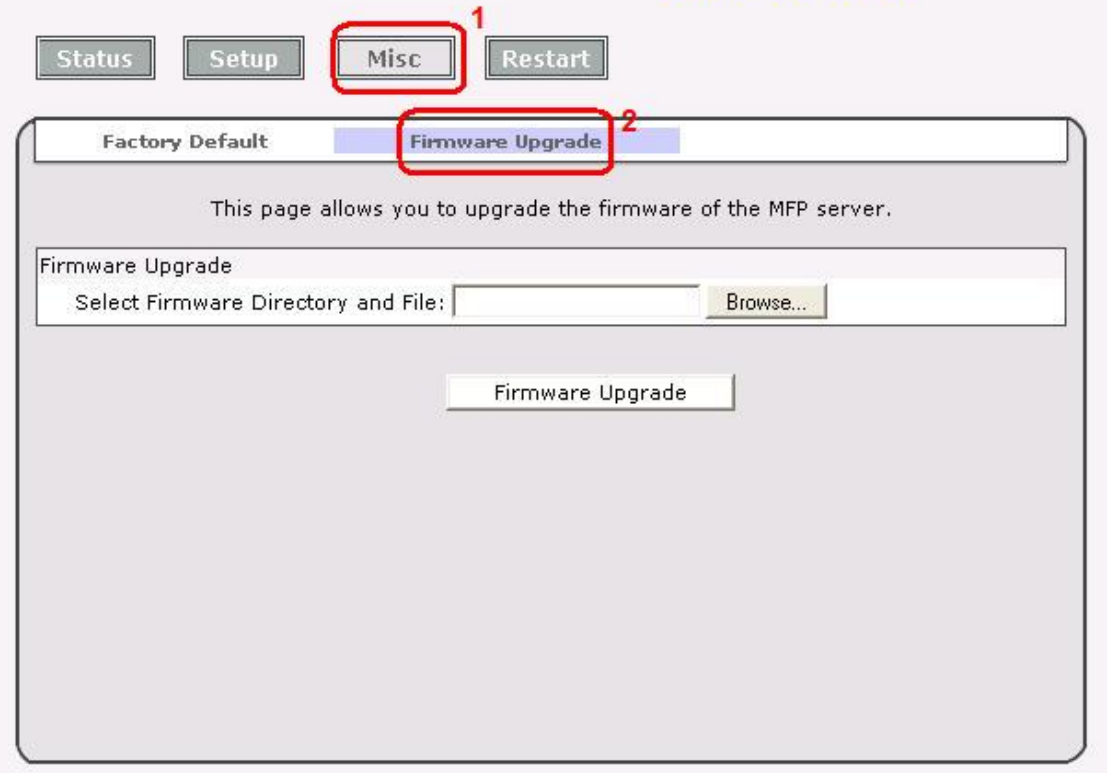
2. Before upgrading MFP server, please ensure MFP server is not printing, scan or fax.

Upgrading the MFP server by Web Browser

1. Ensure binary file is located in your current working directory.

2. Enter the IP address of the MFP server as the URL.

3. Click **Misc**, and then choose **Firmware Upgrade**, it then as shown in the following picture.



4. Click **Browser** and select the firmware file.
5. Click **Firmware Upgrade** button.
6. Done.

6. Troubleshooting

General Troubleshooting Overview

The most common problems, which cause the MFP server to perform improperly, are covered in this chapter. If a problem still exists after reading this chapter, please contact your dealer for technical support.

LED Light Indicators

The MFP server is equipped with LED to assist in diagnosing problems that are the result of the network and/or the MFP server hardware itself.

Status (Orange)

When the MFP server unit is powered on, the ***Status*** LED will flash six times as part of the unit's **P**ower **O**n **S**elf **T**est (**POST**). This indicates that the MFP server hardware is properly configured.

Note: Make sure that the Orange LED flashes six times (**POST**) upon connecting the power. If the unit does not flash six times, contact your dealer for a replacement or repair.

Flow/Link (Green: 100M; Orange: 10M)

If the network cabling is Twisted-Pair Cable, and when this light is ON, the Twisted-Pair cable connection is problem free.

Cable Related Problems

In most cases, the MFP server fails to send and receive network data due to incorrect use of the network cable and/or to connector problems. Twisted-Pair Cable is 10BaseT/100BaseT 8-wire Unshielded Twisted-Pair Cable. The pin assignments for the RJ-45 connector used for this cable must conform to the UTP cable specifications.

Power Related Problems

The MFP server requires an external AC power adapter in order for it to function. If you have a power problem, check to see whether the power cord or its connectors are damaged. More importantly, check to see that the AC power adapter included with the MFP server matches the AC voltage in your country or area. Using an incorrect AC adapter will damage your MFP server.

USB Port Related Problems

Printing data failure may be caused by a loose connection of the MFP server to the USB port of the printer. Check to see if the USB connectors are damaged. In addition, check the cable connection. If the connectors are damaged, contact your dealer for a replacement connector.

Appendix:

Load Default Setting

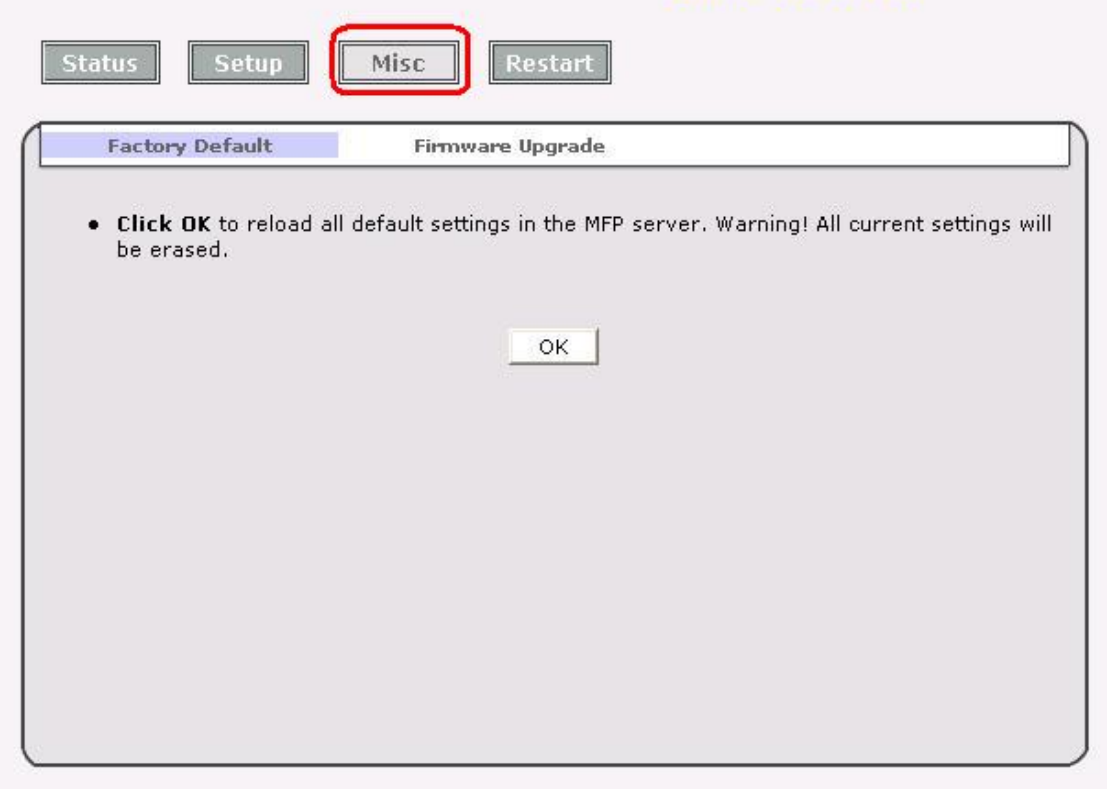
1. Disconnect the external power adapter.
2. Hold down the reset button.
3. Reconnect the external power adapter. Wait about 5~6 seconds.
4. Release the reset button.
5. The MFP server will restart.

WARNING: This will erase all settings of MFP server to default and should be performed with caution!

After performing a factory default, the default settings will be:

- DHCP client: off
- IP address: 192.168.0.10
- Subnet Mask: 255.255.255.0

Or, you can load the default setting from the WEB management as following:



Reboot the MFP server:

1. Verify the power of MFP server is turned on.
2. Press the reset button once, and then release it.

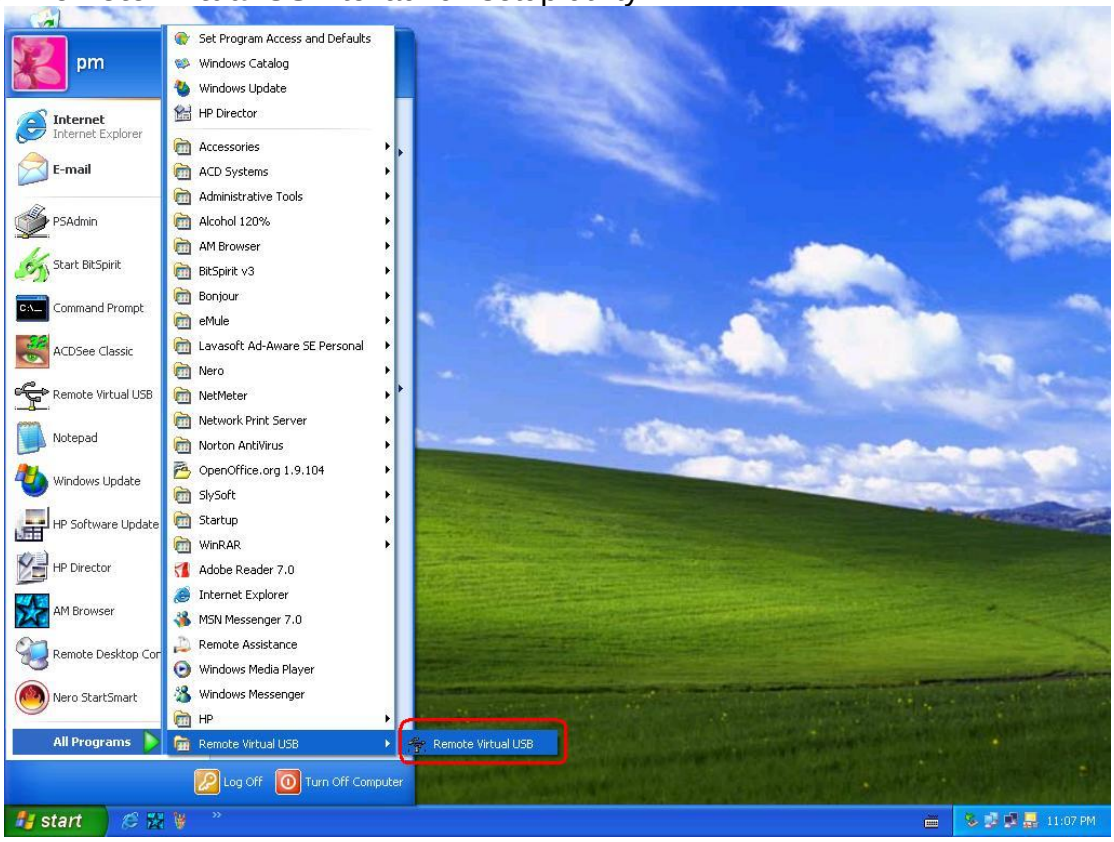
Or, you can click the Restart button from the WEB management as following:

WARNING: This will restart the MFP server and stop all on-going and pending job jobs!

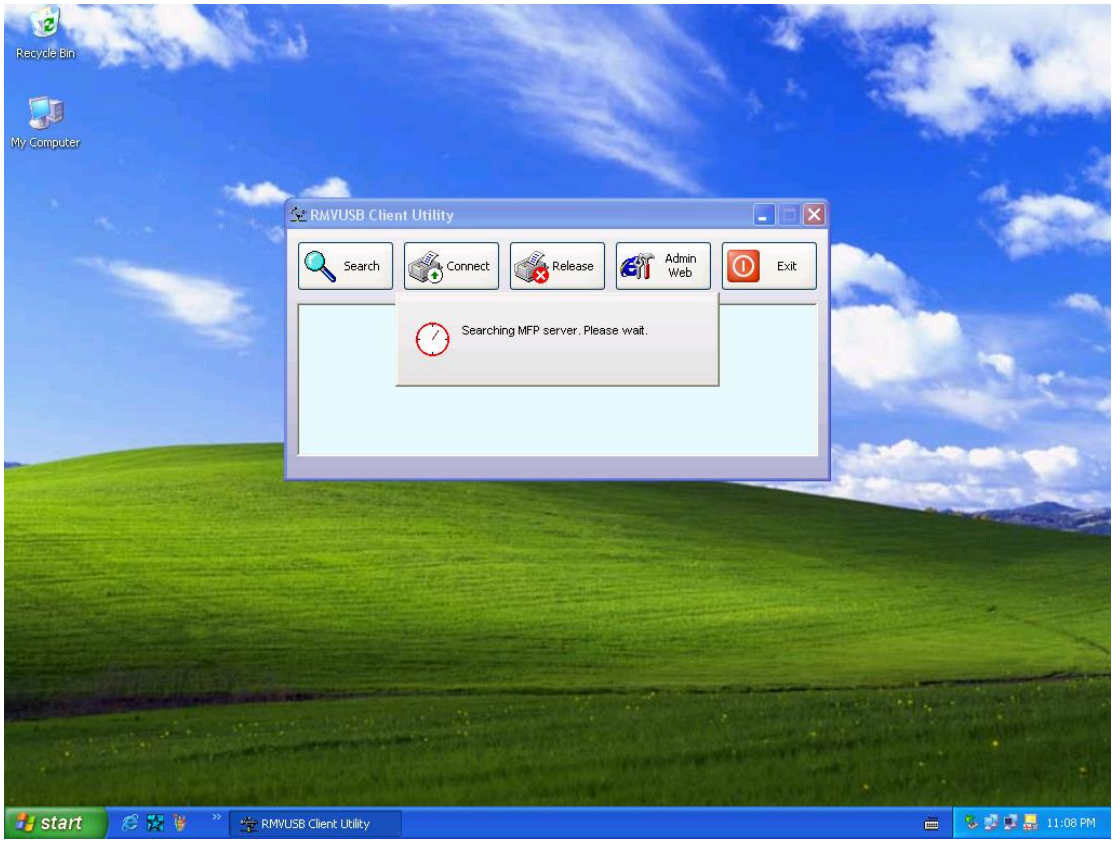
How to Scan via MFP Server

You can use the proprietary utility of MFP printer, e.g. HP Director. Or, you can use the Windows embedded scan utility (WIA, **W**indows **I**mage **A**cquisition) as following steps:

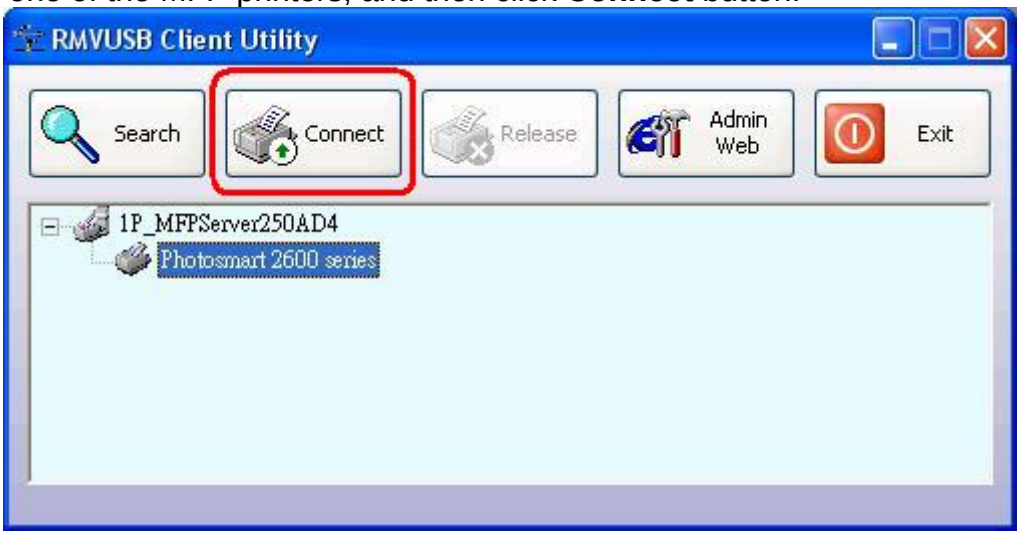
1. Start to setup MFP server. Click **start** -> **All Programs** -> **Remote Virtual USB** folder; click **Remote Virtual USB** to launch setup utility.



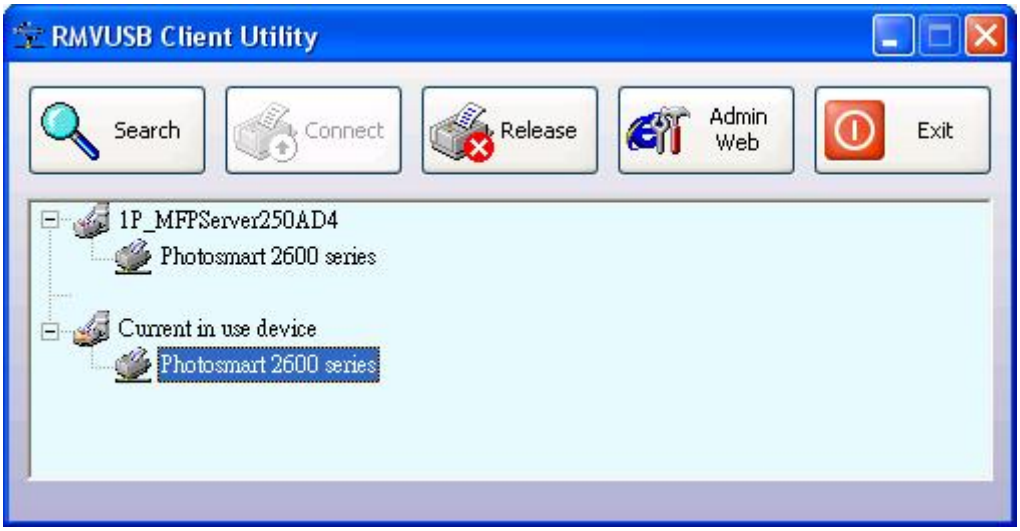
2. Setup utility will search all the MFP servers located on your private network.



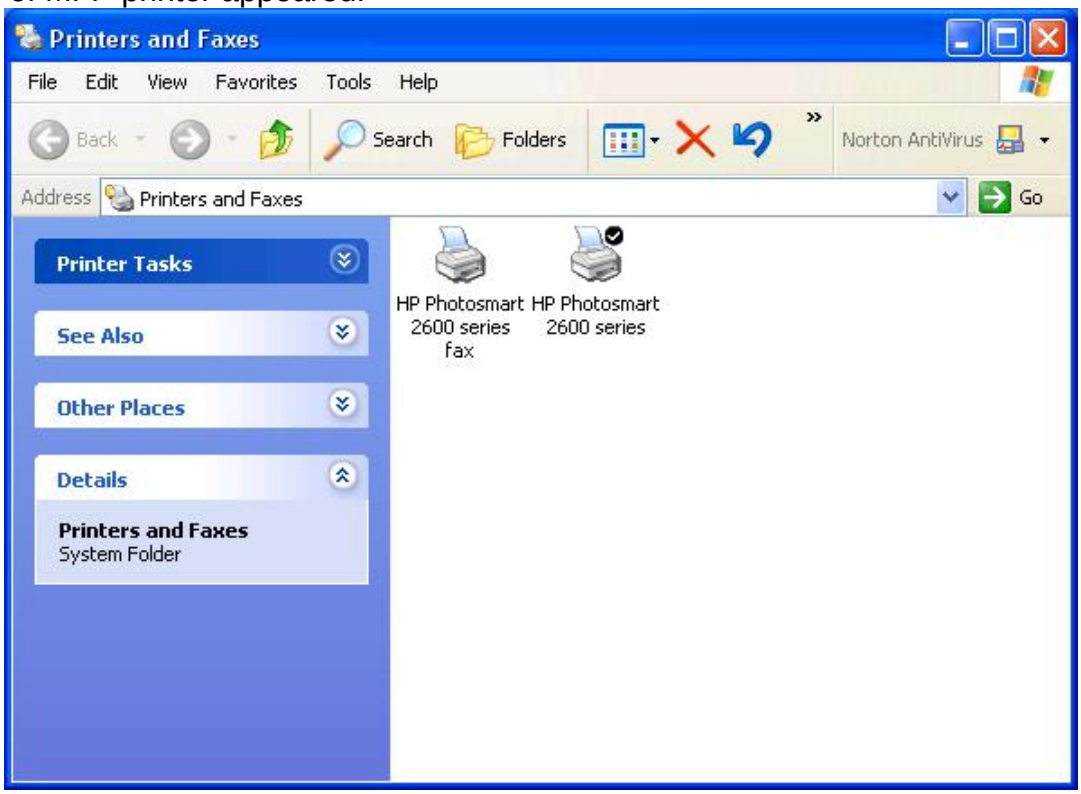
3. Select one of the MFP printers, and then click **Connect** button.



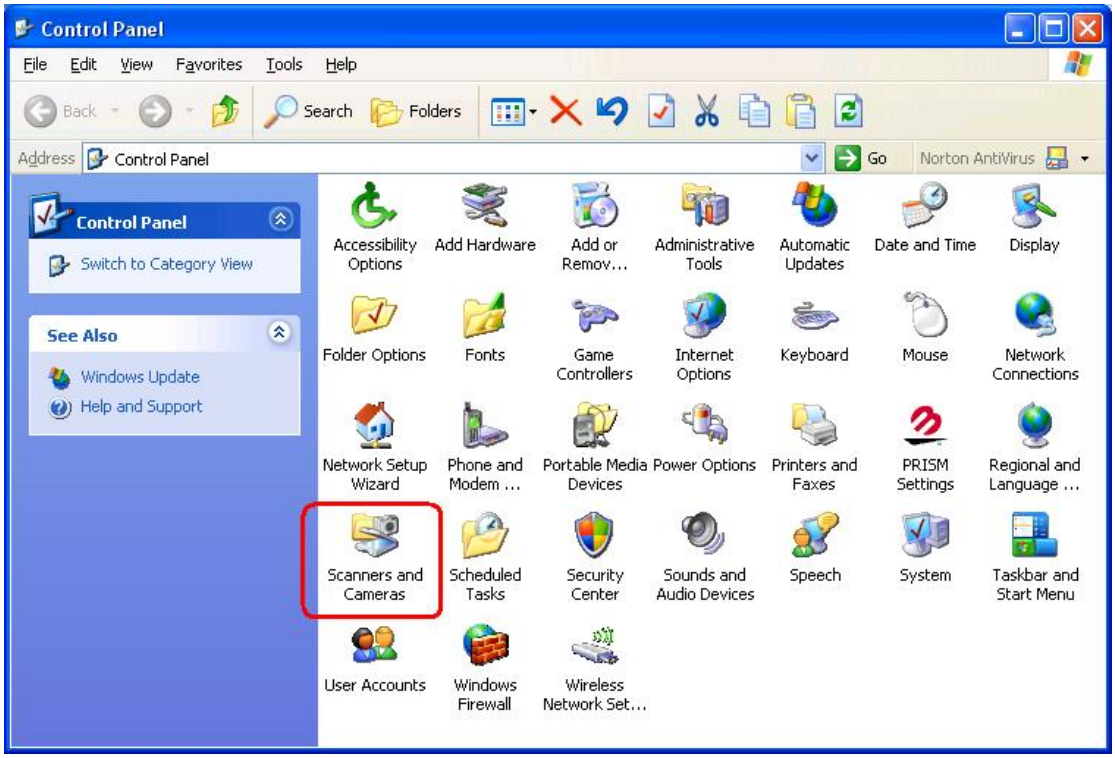
4. Make sure the detection of MFP printer is correct.



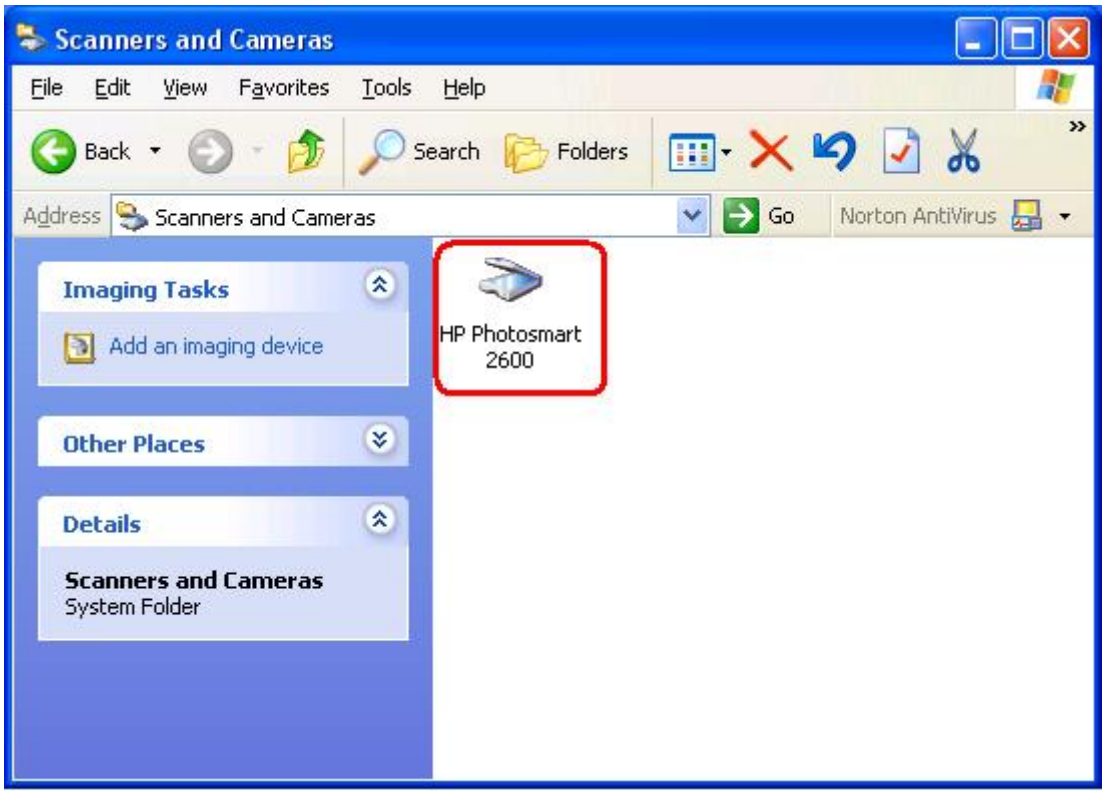
5. From Windows 2000/XP system, go to **start** -> **Printers and Faxes** and make sure of the icon of MFP printer appeared.



6. Double click the **Scanners and Cameras**.



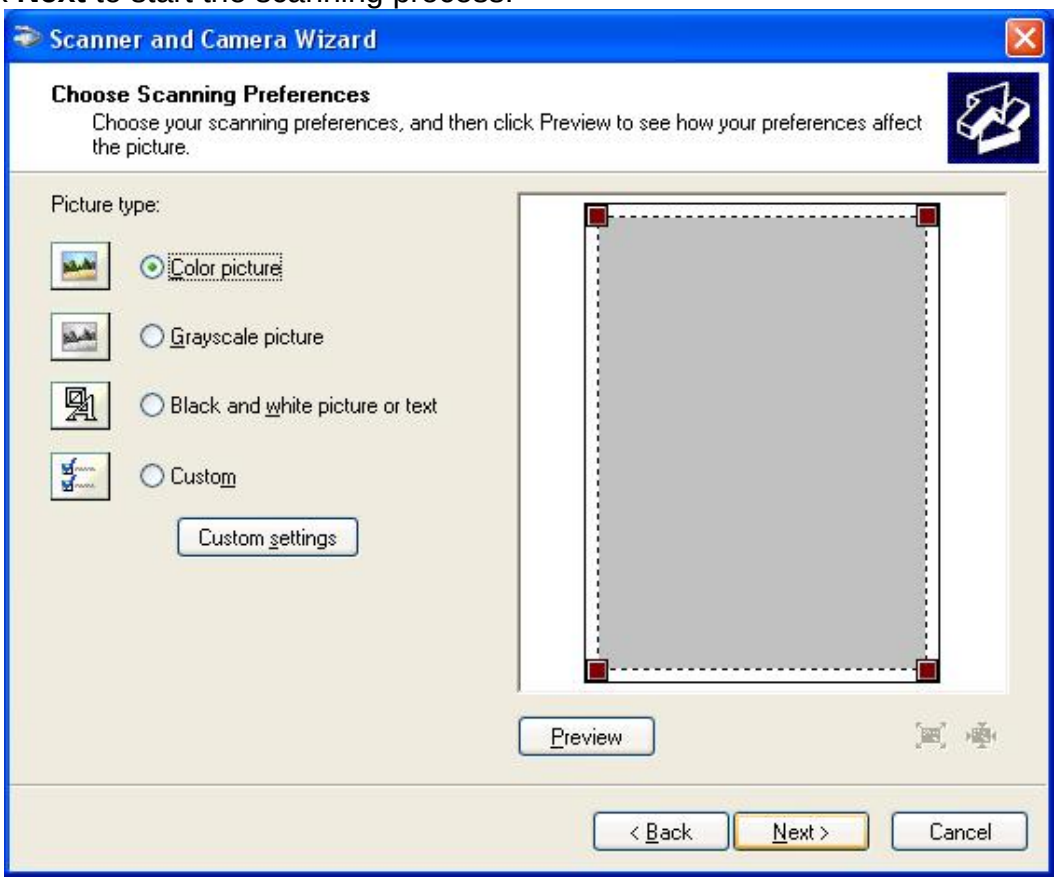
7. Double click the MFP device icon to launch **Windows Scanner and Camera Wizard**.



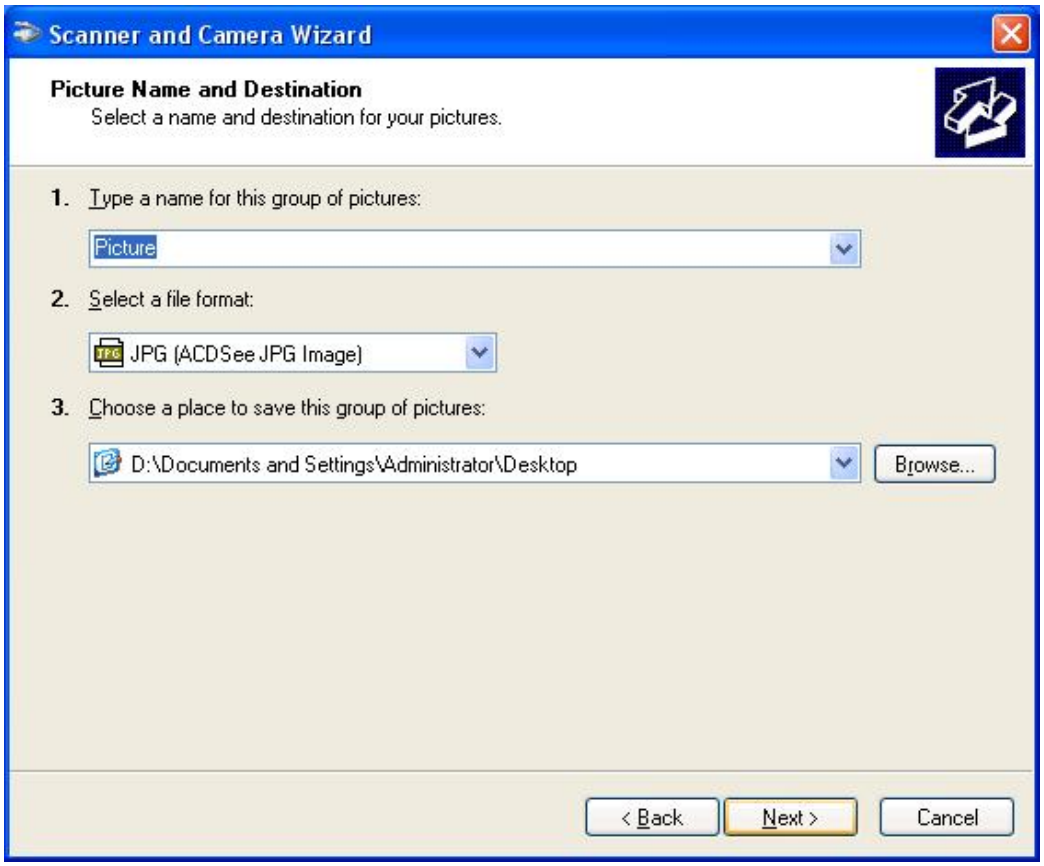
8. Click **Next**.

Scanner and Camera Wizard
Welcome to the Scanner and Camera Wizard
HP Photosmart 2600
This wizard helps you copy pictures from your camera, scanner, or other device to your computer, your network, or the Web.
To continue, click Next.
< Back
Next >
Cancel

9. Click **Next** to start the scanning process.



10. Click **Next**.


Scanner and Camera Wizard
Picture Name and Destination
Select a name and destination for your pictures.
1. Type a name for this group of pictures:
Picture
2. Select a file format:
JPG (ACDSee JPG Image)
3. Choose a place to save this group of pictures:
D:\Documents and Settings\Administrator\Desktop
Browse...
< Back
Next >
Cancel

11. Click **Next**.

Scanner and Camera Wizard
Other Options
You can choose to keep working with your pictures.
Your pictures have been successfully copied to your computer or network.
You can also publish these pictures to a Web site or order prints online.
What do you want to do?
Publish these pictures to a Web site
Order prints of these pictures from a photo printing Web site
Nothing. I'm finished working with these pictures
Learn more about working with pictures.
< Back
Next >
Cancel

12. Click **Finish**.

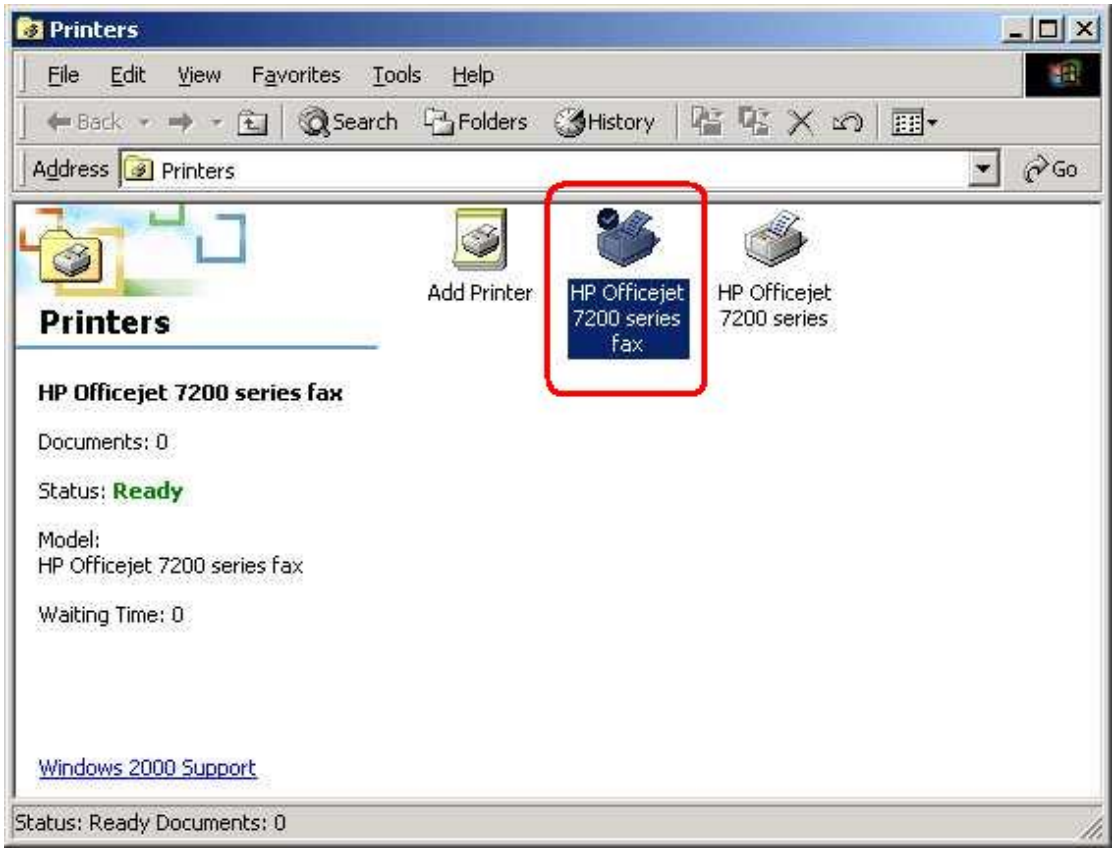
Scanner and Camera Wizard
Completing the Scanner and Camera Wizard
1 picture(s) were copied.
To see your pictures on your computer or network, click the location below:
D:\Documents and Settings\Administrator\Desktop
To close this wizard and see your pictures, click Finish.
< Back
Finish
Cancel

How to Fax via MFP Server

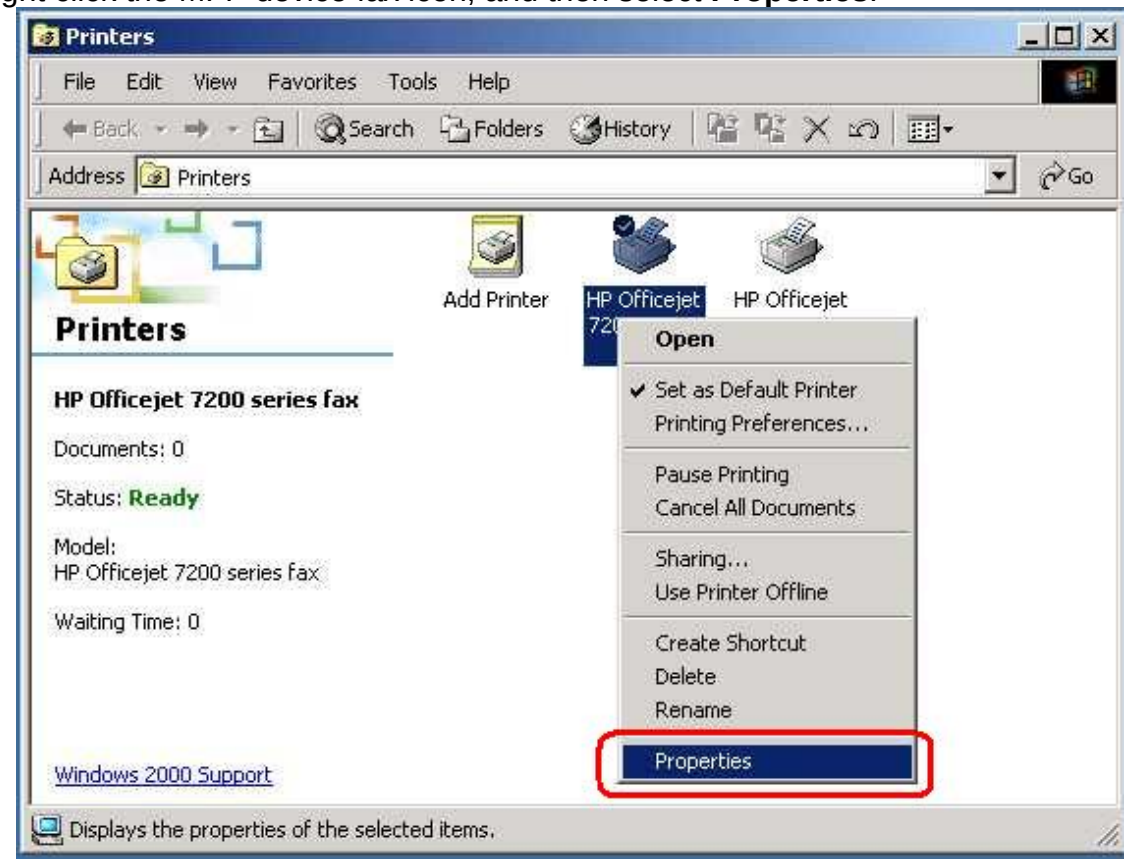
You can use the proprietary utility of MFP printer, e.g. HP Director. Or, you can use the Windows embedded fax utility, for example, send a **Test Page** to remote fax machine.

1. Repeat the step-1 to step-5 of the above section about **How to Scan via MFP Server**.

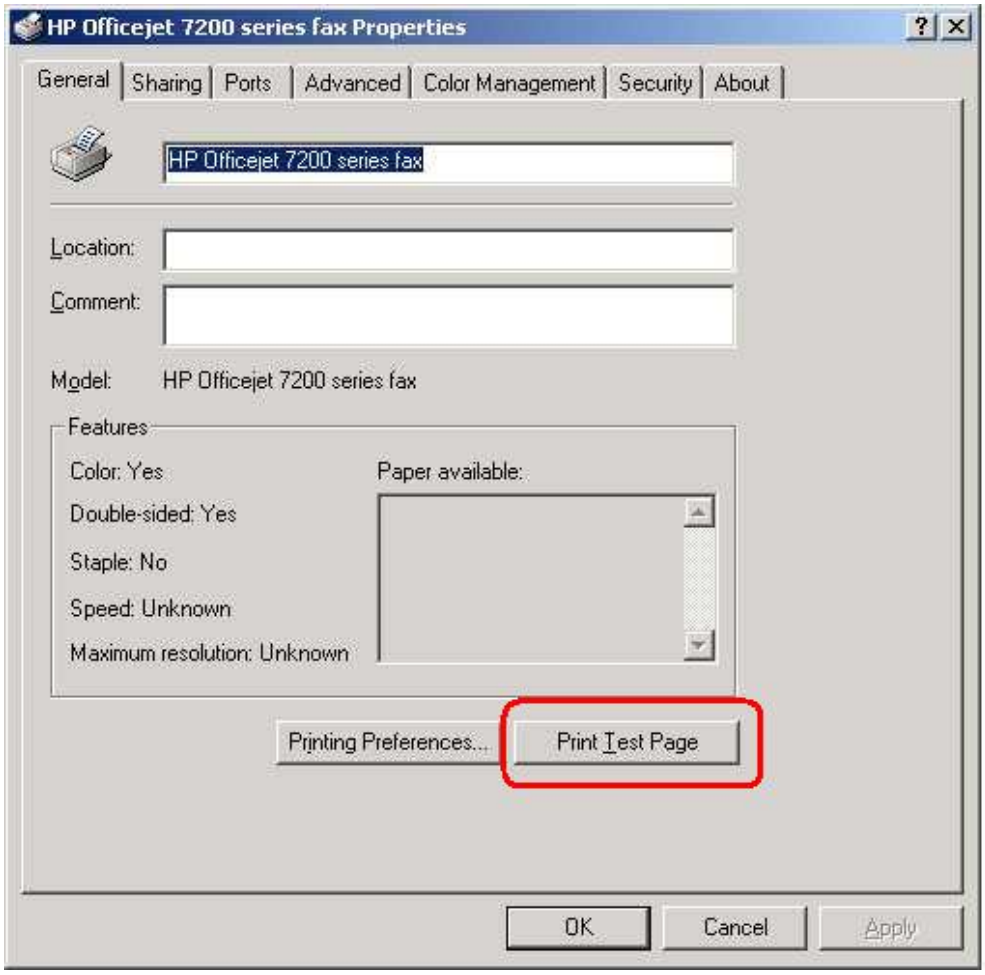
2. Select the MFP device fax icon.



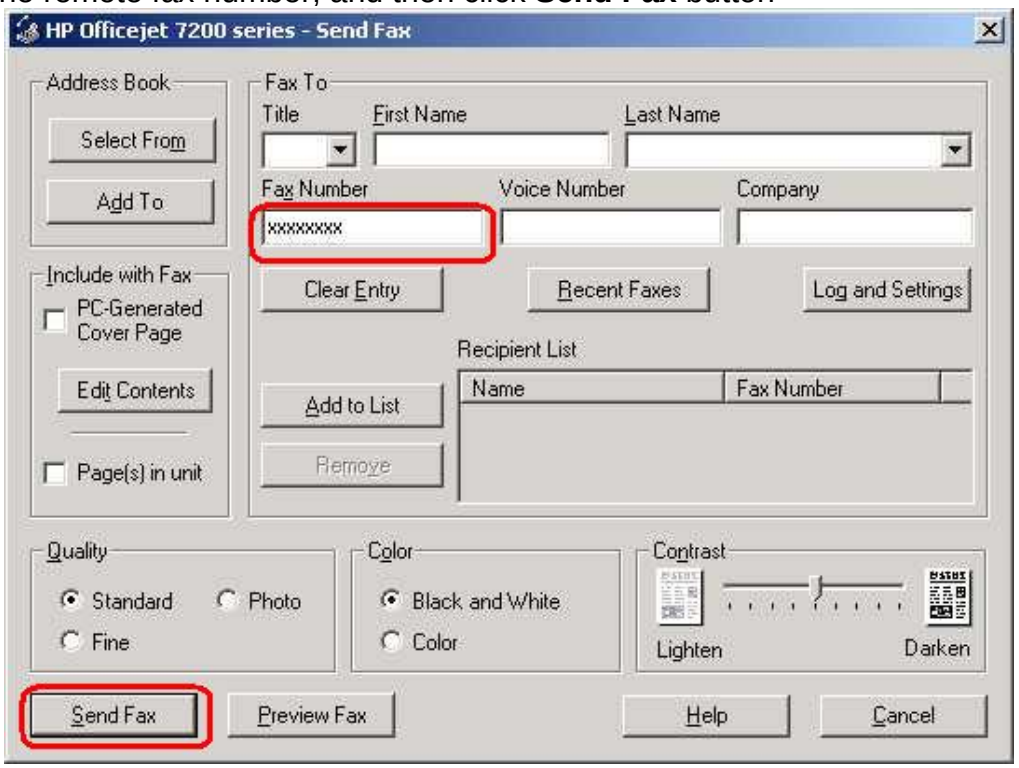
3. Right click the MFP device fax icon, and then select **Properties**.



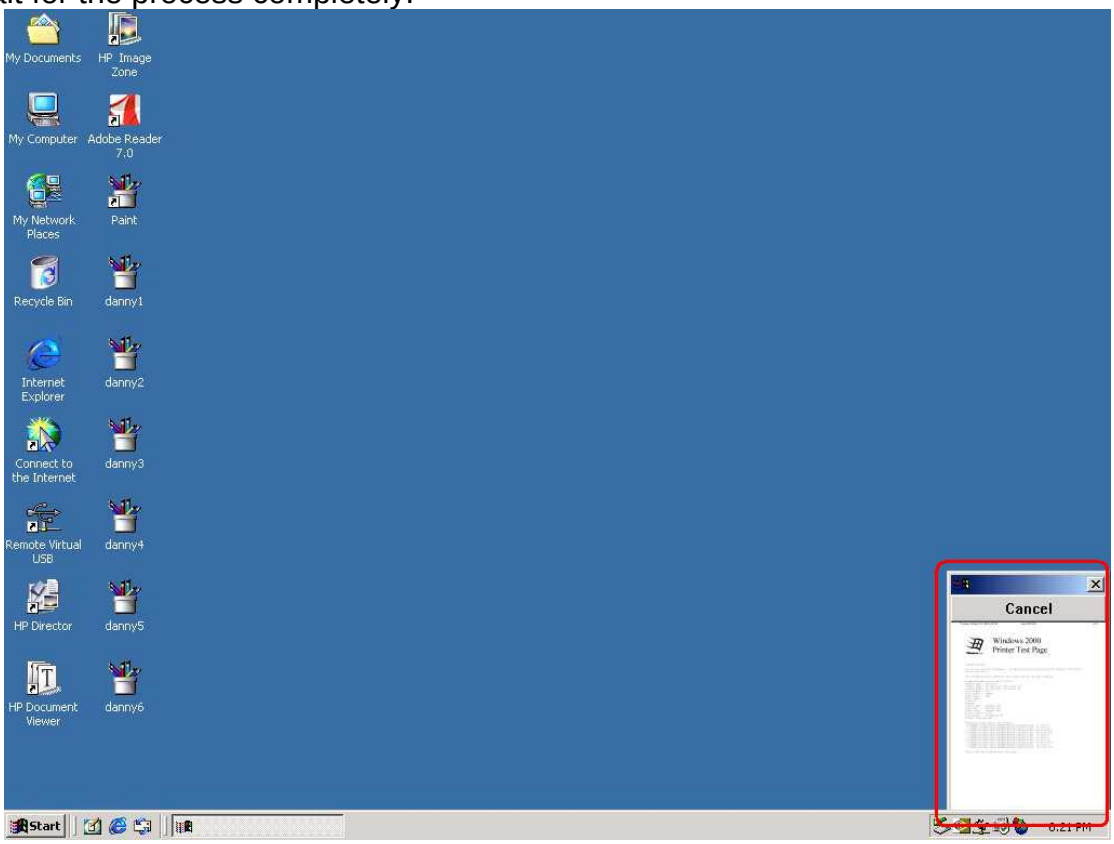
4. Click the **Print Test Page** button.



5. Input the remote fax number, and then click **Send Fax** button



6. Wait for the process completely.



7. Done.

Frequently Asked Questions

Question A

The Status LED light keeps blinking after POST.

Possible explanation and solution

The last upgrade process was not completed. The MFP server must be upgraded again.

Question B

The setup utility can't find MFP server.

Possible Explanation-1

The Windows Firewall installed in your computer blocks the connection.

Solution

Please disable the Windows Firewall temporarily or adjust the security level to lower.

Or

Possible Explanation-2

The IP address segment is different between computer and MFP server.

Solution

Change the default IP address (192.168.0.10) of MFP server to match your network segment by Web management. If you changed the default IP address and forgot it, please refer to the above section about the **Load Default Setting**. To make sure the IP address of MFP server is restored.